


```

1 0001 0 MODULE COB$CALL (
2 0002 0 IDENT = '1-010' ! file: COB$CALL.B32 EDIT:LB1010
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1
8 0008 1
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
11 0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
12 0012 1 * ALL RIGHTS RESERVED.
13 0013 1 *
14 0014 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
15 0015 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
16 0016 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
17 0017 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
18 0018 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
19 0019 1 * TRANSFERRED.
20 0020 1 *
21 0021 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
22 0022 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
23 0023 1 * CORPORATION.
24 0024 1 *
25 0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: COBOL SUPPORT
32 0032 1
33 0033 1 ABSTRACT: This procedure fetches the address of the routine entry
34 0034 1 point that is associated with the name that is passed
35 0035 1 to it via the "DESC" parameter. If the corresponding
36 0036 1 address of the routine is not found, then this procedure
37 0037 1 returns a value of zero to the calling program.
38 0038 1
39 0039 1 ENVIRONMENT: Vax-11 User Mode
40 0040 1 NOTE: This module cannot be in a shareable library
41 0041 1
42 0042 1 AUTHOR: MLJ , CREATION DATE: 10-APR-1979
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 1-001 - Original. MLJ 10-APR-1979
47 0047 1 1-002 - Added boilerplate and comments. RKR 18-JULY-1979
48 0048 1 1-003 - Declare psects via library macro. RKR 23-AUG-1979
49 0049 1 1-004 - Fetch COBDEF from RTLIN rather than LIB$. RKR 18-SEPT-79
50 0050 1 1-005 - Signal error COB$_ROUNOTLIN if COB$$FIND_NAME fails.
51 0051 1 RKR 2-OCT-79
52 0052 1 1-006 - Undo rev. 5, not desired action. RKR 04-OCT-79
53 0053 1 1-007 - Cosmetic changes. RKR 18-OCT-79
54 0054 1 1-008 - Signal if name not found. 21-OCT-79
55 0055 1 1-009 - Remove all signalling actions, -- let compiled-code caller
56 0056 1 do the signalling. RKR 29-OCT-79
57 0057 1 1-010 - Added functional description, abstract, comments and cosmetic

```

COBSCALL
1-010

M 9
16-Sep-1984 00:00:39
14-Sep-1984 12:10:23

VAX-11 Bliss-32 V4.0-742
[COBRTL.SRC]COBSCALL.B32;1

Page 2
(1)

: 58
: 59
: 60

0058 1 1
0059 1 1
0060 1 1--

changes. LB 02-MAR-81


```
62 0061 1 !+
63 0062 1 ! SWITCHES
64 0063 1 !-
65 0064 1
66 0065 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
67 0066 1
68 0067 1 !+
69 0068 1 ! LINKAGES
70 0069 1 !-
71 0070 1 ! -NONE
72 0071 1 !-
73 0072 1
74 0073 1 !+
75 0074 1 ! TABLE OF CONTENTS:
76 0075 1 !-
77 0076 1 ! FORWARD ROUTINE
78 0077 1
79 0078 1 ! COB$CALL ;
80 0079 1
81 0080 1 !+
82 0081 1 ! INCLUDE FILES
83 0082 1 !-
84 0083 1
85 0084 1 REQUIRE 'RTLIN:RTLPSECT' ; ! Macros for declaring psects
86 0179 1 REQUIRE 'RTLIN:COBDEF' ; ! COBOL specific RTL macros and literals
87 0621 1
88 0622 1
89 0623 1 !+
90 0624 1 ! MACROS
91 0625 1 !-
92 0626 1 ! -NONE
93 0627 1
94 0628 1 !+
95 0629 1 ! EQUATED SYMBOLS
96 0630 1 !-
97 0631 1 ! -NONE
98 0632 1
99 0633 1 !+
100 0634 1 ! PSECT DECLARATIONS:
101 0635 1 !-
102 0636 1
103 0637 1 DECLARE_PSECTS (COB) ; ! Psects for COB$ facility
104 0638 1
105 0639 1 !+
106 0640 1 ! EXTERNAL REFERENCES
107 0641 1 !-
108 0642 1
109 0643 1 EXTERNAL ROUTINE
110 0644 1 !\find routine name match in list
111 0645 1 !/of local and global program names
112 0646 1 COB$$FIND_NAME : ADDRESSING_MODE (GENERAL) ;
```

```
114 0647 1 GLOBAL ROUTINE COB$CALL(DESC,LLIST)=
115 0648 1
116 0649 1
117 0650 1 ++
118 0651 1 FUNCTIONAL DESCRIPTION:
119 0652 1 This routine passes control to routine COB$$FIND_NAME which will
120 0653 1 search through the list of local program names to find a match to
121 0654 1 the parameter 'DESC'. If no match is found, it searches through
122 0655 1 the list of global program names (designated by the COB$GZ_NAMES_2
123 0656 1 structure). If a match is found, then COB$CALL will return the
124 0657 1 address of the routine entry point; otherwise, it returns a value
125 0658 1 of zero.
126 0659 1
127 0660 1 CALLING SEQUENCE:
128 0661 1
129 0662 1 COB$CALL (desc.rt.ds, llist.rr.r)
130 0663 1
131 0664 1 FORMAL PARAMETERS:
132 0665 1
133 0666 1 DESC.rt.ds Address of descriptor for name
134 0667 1
135 0668 1 LLIST.rr.r Pointer to a counted list of accessible local programs
136 0669 1
137 0670 1 IMPLICIT INPUTS:
138 0671 1
139 0672 1 NONE
140 0673 1
141 0674 1 IMPLICIT OUTPUTS:
142 0675 1
143 0676 1 NONE
144 0677 1
145 0678 1 ROUTINE VALUE:
146 0679 1
147 0680 1 Address of desired routine's entry point, else 0 if not found
148 0681 1
149 0682 1 COMPLETION CODES:
150 0683 1
151 0684 1 NONE
152 0685 1
153 0686 1 SIDE EFFECTS:
154 0687 1
155 0688 1 NONE
156 0689 1
157 0690 1 --
158 0691 1
159 0692 2 BEGIN
160 0693 2
161 0694 2 LOCAL
162 0695 2 P: REF BLOCK [, BYTE];
163 0696 2
164 0697 2 BUILTIN
165 0698 2 AP,
166 0699 2 CALLG;
167 0700 2
168 0701 2 P = CALLG (.AP,COB$$FIND_NAME); ! Find a match for program name
169 0702 2 IF .P NEQ 0 ! If NEQ 0, then match found
170 0703 2 THEN
```

COB\$CALL
1-010

C 10
16-Sep-1984 00:00:39 VAX-11 BLISS-32 V4.0-742
14-Sep-1984 12:10:23 [COBRTL.SRC]COB\$CALL.B32;1

Page 5
(3)

```
: 171      0704 2      P = .P[COB$A_NAM_ENTRY] ;
: 172      0705 2      RETURN .P
: 173      0706 2
: 174      0707 1      END;
```

```
! \Fetch addr of routine entry
! point and return it to
! /the calling program
! End of routine COB$CALL
```

```
.TITLE COB$CALL
.IDENT \1-010\
.EXTRN COB$$FIND_NAME
.PSECT _COB$CODE,NOWRT, SHR, PIC,2
.ENTRY COB$CALL, Save nothing
CALLG (AP), COB$$FIND_NAME
TSTL P
BEQL 1$
MOVL 8(P), P
RET
```

```
: 0647
: 0701
: 0702
: 0704
: 0707
```

```
00000000G 00      0000 00000
6C FA 00002
50 D5 00009
04 13 0000B
50      08 A0 D0 0000D
04 00011 1$:
```

; Routine Size: 18 bytes, Routine Base: _COB\$CODE + 0000

```
: 175      0708 1 END      ! End of module COB$CALL
: 176      0709 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
_COB\$CODE	18	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:COB\$CALL/OBJ=OBJ\$:COB\$CALL MSRC\$:COB\$CALL/UPDATE=(ENH\$:COB\$CALL)

```
: Size:      18 code + 0 data bytes
: Run Time:   00:02.3
: Elapsed Time: 00:08.9
: Lines/CPU Min: 18823
: Lexemes/CPU-Min: 40911
: Memory Used: 38 pages
: Compilation Complete
```


0061 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY